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**G01N 33/70**

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⑤④ **Predicting predisposition to osteoporosis.**

⑤⑦ Means are provided for use in a method of providing a diagnostic indicia which is predictive of the risk of a non-osteoporotic human being contracting osteoporosis as a consequence of being in a long-term hormonally agonadal state, which comprises the steps of determining the average ratio of calcium to creatinine in the urine or in the blood of that person, during a period when the person is ingesting only foodstuff sources of calcium and vitamin D, while in a hormonally gonadal state, and also while in a hormonally agonadal state; determining the magnitude of the difference in the ratio obtained in the latter state compared to the former state, a large difference being predictive of a high risk of that person contracting osteoporosis.

**EP 0 217 659 A3**



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X	DATABASE PASCAL, vol. 33, no. 6, reference 82289550, 1981, pages 575-581; C. CHRISTIANSEN et al.: "Factors in response to treatment of early postmenopausal bone loss", & CALCIF. TISSUE INT. 1981, 33(6) ---	1,7	G 01 N 33/84 G 01 N 33/68 G 01 N 33/70
X	CHEMICAL ABSTRACTS, vol. 96, no. 3, 18th January 1982, page 189, column 2, abstract no. 16923w; Columbus, Ohio, US; J.L. SEBERT et al.: "Fasting urinary excretion of calcium, phosphate and hydroxyproline in relation to creatinine. Normal values and correlations with 24-hour urine values", & NOUV. PRESSE MED. 1981, 10(34), 2799-2801 ---	1	
P,X	CHEMICAL ABSTRACTS, vol. 105, no. 1, 7th July 1986, page 525, column 2, abstract no. 5477g, Columbus, Ohio, US; E.C.H. VAN BERESTEYN et al.: "Design and data quality of a mixed longitudinal study to elucidate the role of dietary calcium and phosphorus on bone mineralization in pre-, peri-, and postmenopausal women", & AM. J. CLIN. NUTR. 1986, 43(4) 538-548 ---	1,7	TECHNICAL FIELDS SEARCHED (Int. Cl.4)  G 01 N 33/00
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The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 02-12-1987	Examiner GREEN C.H.
<b>CATEGORY OF CITED DOCUMENTS</b> X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document  T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons ----- & : member of the same patent family, corresponding document			



DOCUMENTS CONSIDERED TO BE RELEVANT			
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A	CHEMICAL ABSTRACTS, vol. 95, no. 7, 17th August 1981, page 559, columns 1, 2, abstract no. 60283r, Columbus, Ohio, US; G. SCHAAFSMA "The influence of dietary calcium and phosphorus on bone metabolism", & NIZO-VERSL. 1981, 219, 120 ---	1,7	
A	US-A-3 771 961 (J.W. DENNEY) * column 1, lines 1-32; claim 1 * ---	1,7	
A	EP-A-0 067 041 (WAKO PURE CHEMICAL INDUSTRIES LTD.) * page 1 complete, claim 1 * ---	1,7	
A	CLINICAL CHEMISTRY, vol. 26, no. 8, July 1980, pages 1119-1126, Winston-Salem, US; S. NARAYANAN et al: "Creatinine: A review" * pages 1119-1126 * -----	1,7	
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